

## Water Distribution Construction Checklist

Texas Commission on Environmental Quality    Public Water System I.D. No.: \_\_\_\_\_  
Water Supply Division    TCEQ Log. No.: \_\_\_\_\_  
Util. Technical Review Team MC-159    Owner's Well Id No. or Name.: \_\_\_\_\_  
P.O. Box 13087, Austin, Texas 78711-3087

The following list is a synopsis of the "Rules for Public Water Systems", 30 TAC Chapter 290 regarding proposed water distribution system improvements. Plans and specifications meeting, but not limited, to the minimum requirements cited here shall be prepared under the supervision of a registered professional engineer and submitted to TCEQ for approval. This list is not a substitute for the rules. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from Texas Register, 1019 Brazos St, Austin, TX, 78701-2413, Phone: 512/463-5561 or downloaded from the website of the [Public Water System Plan Review](#).

- |      |                          |   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
|------|--------------------------|---|----|-------------|----------|----|--|-----|----|--|---|-----|--|---|-----|--|---|-----|--|---|------|--|--------------|
| 1.   | <input type="checkbox"/> | Conforms to American Water Works Association (AWWA) standards. [§290.44(a)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 2.   | <input type="checkbox"/> | Conforms to ANSI/NSF Standard 61 and certified. [§290.44(a)(1)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 3.   | <input type="checkbox"/> | Plastic pipe bears NSF-pw seal; ASTM class 150 psi or SDR-26. [§290.44(a)(2)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 4.   | <input type="checkbox"/> | Not used for purpose other drinking water. [§290.44(a)(3)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 5.   | <input type="checkbox"/> | Installed by manufacturer's instructions; <input type="checkbox"/> depth of cover 24 inches. [§290.44(a)(4)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 6.   | <input type="checkbox"/> | Hydrostatic leakage rate conforms to AWWA formulas. [§290.44(a)(5)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 7.   | <input type="checkbox"/> | Correct leakage rate formula. [§290.44(a)(5)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 8.   | <input type="checkbox"/> | Pipes and fittings contain no more than 8.0% lead. [§290.44(b)(1)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 9.   | <input type="checkbox"/> | <div> <div>Minimum water line sizes. [§290.44(c)]</div> <table border="0"> <tr> <td>10</td> <td>Connections</td> <td>2 inches</td> </tr> <tr> <td>25</td> <td></td> <td>2.5</td> </tr> <tr> <td>50</td> <td></td> <td>3</td> </tr> <tr> <td>100</td> <td></td> <td>4</td> </tr> <tr> <td>150</td> <td></td> <td>5</td> </tr> <tr> <td>250</td> <td></td> <td>6</td> </tr> <tr> <td>&gt;250</td> <td></td> <td>8 and larger</td> </tr> </table> </div> | 10 | Connections | 2 inches | 25 |  | 2.5 | 50 |  | 3 | 100 |  | 4 | 150 |  | 5 | 250 |  | 6 | >250 |  | 8 and larger |
| 10   | Connections              | 2 inches  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 25   |                          | 2.5   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 50   |                          | 3   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 100  |                          | 4   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 150  |                          | 5   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 250  |                          | 6   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| >250 |                          | 8 and larger  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 10.  | <input type="checkbox"/> | Minimum design pressure of 35 psi at flow of 1.5 g.p.m. per connection. [§290.44(d)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 11.  | <input type="checkbox"/> | ir release where air locks may occur in the lines. 16-mesh or finer screen on vent. [§290.44(d)(1)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 12.  | <input type="checkbox"/> | Booster pumps take suction from storage tanks. [§290.43(f)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 13.  | <input type="checkbox"/> | Metering devices at each service connection. [§290.44(d)(4)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 14.  | <input type="checkbox"/> | Sufficient valves and blowoffs. [§290.44(d)(5)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 15.  | <input type="checkbox"/> | Looped lines, dead-ends have flush valves and discharge piping. [§290.44(d)(6)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 16.  | <input type="checkbox"/> | Separation distances. (wastewater lines, manholes and fire hydrants) [§290.44(e)]   |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |
| 17.  | <input type="checkbox"/> | Disinfected in accordance with Chapter 290 and AWWA Standard C651. [§290.44(f)(3)]  |    |             |          |    |  |     |    |  |   |     |  |   |     |  |   |     |  |   |      |  |              |